

## Abstract

### A Hinge Mechanism for a limb protector

A Limb protector which, in hinging, matches the complex bending motion of the natural knee of a human being. The hinge mechanism has supports for the upper and lower leg which are attached to each other by a hinging mechanism which is connected to and pivots on the supports at position 50 and position 72 respectively. Connection of the support at 50 is to the plate of the hinge mechanism and at 72 to the arm which pivots on the plate at 61. This configuration of the hinging system allows the hinge mechanism of the limb protector to follow the natural movements of the human knee at all degrees of natural movement.